

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :  
Thomas WEDI et al. : Attorney Docket No. 2006\_1213A  
Serial No. 10/587,202 :  
Filed July 25, 2006 :

ENCODING AND DECODING OF VIDEO  
IMAGES BASED ON A QUANTIZATION  
WITH AN ADAPTIVE DEAD-ZONE SIZE

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☒ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application PCT/\_\_\_\_\_; and/or
- ☐ each reference previously cited in prior parent application Serial No. \_\_\_\_\_.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, **or**

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

**and thus no certification and/or fee is required.**

- 1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) ☐ the certification of paragraph 2 below is provided, or  
(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

**the certification of paragraph 2 below is provided, and  
the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.**

2. It is hereby certified

- a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or  
b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
  - b. ☒ a foreign patent office search report (in the English language) submitted herewith,
  - c. ☐ the concise explanation contained in the specification of the present application at page,
  - d. ☒ the concise explanation set forth in the attached English language abstract,
  - e. ☒ the concise explanation set forth below or on a separate sheet attached to the reference:  
EP1379090 corresponds to US2004/0008899 A1; and  
JP2003-230142 corresponds to US2003/0147463 A1.
5. ☒ A foreign patent office search report citing one or more of the references is enclosed.
6. ☐ Statement Under 37 CFR 1.704(d)

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Thomas WEDL et al.

By 

W. Douglas Hahm  
Registration No. 44,142  
Attorney for Applicants

WDH/ck  
Washington, D.C. 20006-1021  
Telephone (202) 721-8200  
Facsimile (202) 721-8250  
September 12, 2006

Sheet 1 of 1

## INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

Date Submitted to PTO: September 12, 2006

ATTY DOCKET NO.  
2006\_1213ASERIAL NO.  
10/587,202APPLICANT  
Thomas WEDI et al.FILING DATE  
July 25, 2006

GROUP

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,408,026	06/02	Tao			
	AB	2004/0008899 A1	01/04	Tourapis et al.			
	AC	2003/0147463 A1	08/03	Sato et al.			
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	1 379 090	01/04	EP			
	AK	2003-230142	08/03	JP			Abstract
	AL	04-040118	02/92	JP			Abstract

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AO	M. W. MARCELLIN, M. A. LEPLEY, A. BILGIN, T. J. FLOHR, T. T. CHINEN, J. H. KASNER: "An Overview of Quantization in JPEG2000" SIGNAL PROCESSING: IMAGE COMMUNICATIONS, SPECIAL ISSUE ON JPEG-2000, "Online! Vol. 17, no. 1, December 2001, pages 73-84, XP002287860, retrieved from the Internet <http://www-spac.ece.arizona.edu>.
AP	RABBANI M ET AL: "An overview of the JPEG 2000 still image compression standard" SIGNAL PROCESSING. IMAGE COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 17, no. 1, January 2002, pages 3-48, XP004326797.
AQ	OKTEM R, EGIAZARIAN K: "A wavelet transform method for coding film-grain noise corrupted images" INTERNATIONAL CONFERENCE ON ACOUSTICS AND SIGNAL PROCESSING (ICASSP 2000), vol. 4, 5-9 June 2000, pages 2063-2066, XP010504703.
	AL-SHAYKH O K ET AL: "Lossy compression of images corrupted by film grain noise" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP) LAUSANNE, SEPT. 16-19, 1996, NEW YORK, IEEE, US, vol. 1, 16-19 September 1996, pages 805-808, XP010202188.

EXAMINER

/Hee-yong Kim/

DATE CONSIDERED

10/07/2010

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.K./